

## DESIGNED PROTEIN PORES AS COMPONENTS FOR BIOSENSORS

A mutant staphylococcal alpha hemolysin polypeptide containing a heterologous analyte-binding amino acid which assembles into an analyte-responsive heptameric pore assembly in the presence of a wild type staphylococcal alpha hemolysin polypeptide, digital biosensors, and methods of detecting, identifying, and quantifying analytes are described.

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